

U1-snRNP A

Antigen Specification

Product Number: 13100

Description:

Human U1-snRNP A protein component of the U1 small nuclear ribonucleoprotein particle.

Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG-type human auto-antibodies.

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Expression construct:

Full-length cDNA coding for the human U1-snRNP A protein fused to a hexahistidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 90%); Western blot with i: anti-U1-snRNP A autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

32 kDa

Calculated isoelectric point:

pH 10.1

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative samples, including international reference sera obtained from the CDC, Atlanta, GA, USA); line assay and immunodot analyses with positive/negative samples.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below.

Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.3–0.5 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

Remark on assays with this antigen:

Anti-RNP autoantibodies, traditionally determined with the entire U1-snRNP particle as antigen, will require simultaneous use of recombinant U1-snRNP 68/70 kDa, U1-snRNP A and U1-snRNP C antigens for complete identification of anti-RNP positive sample.

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